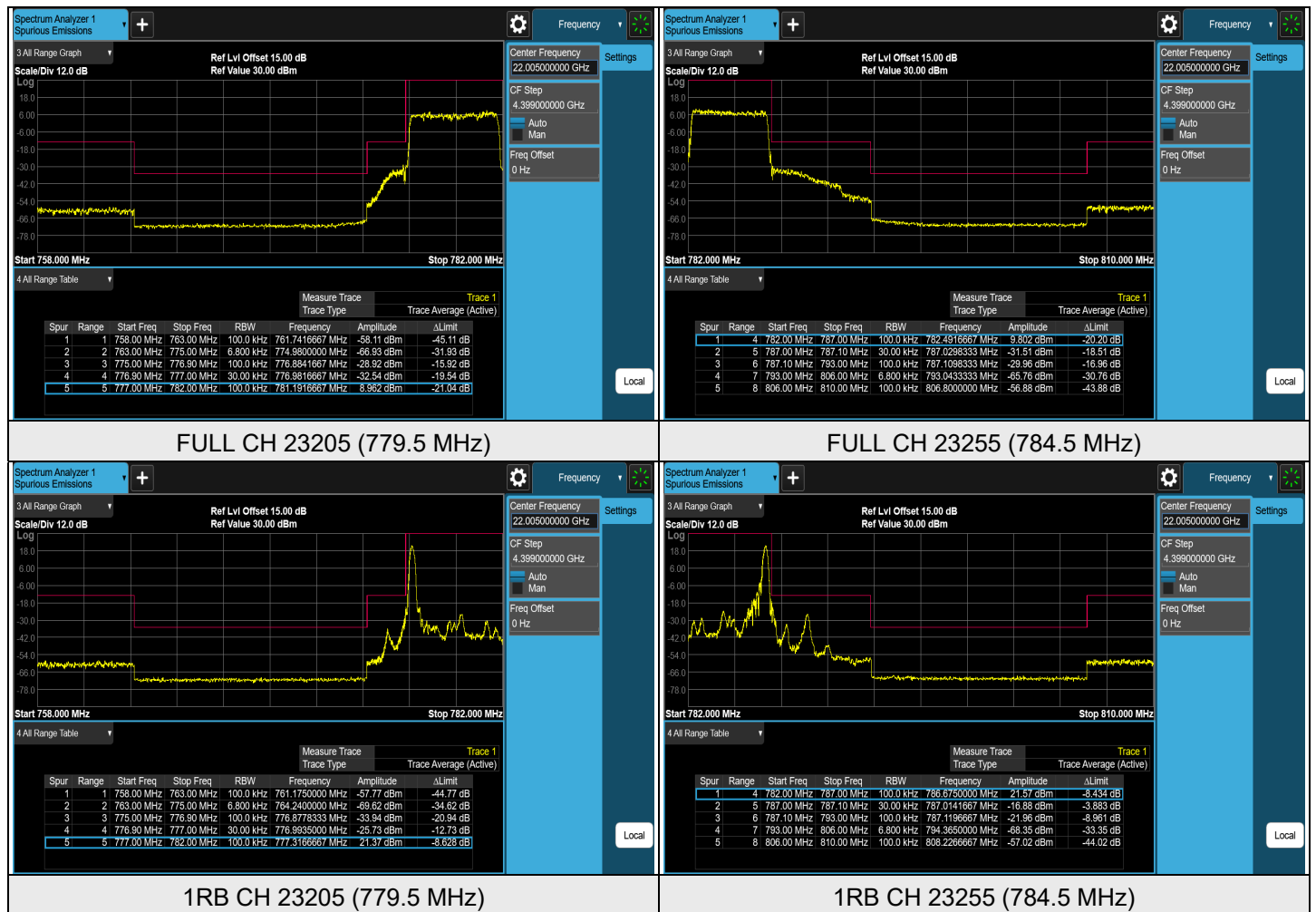
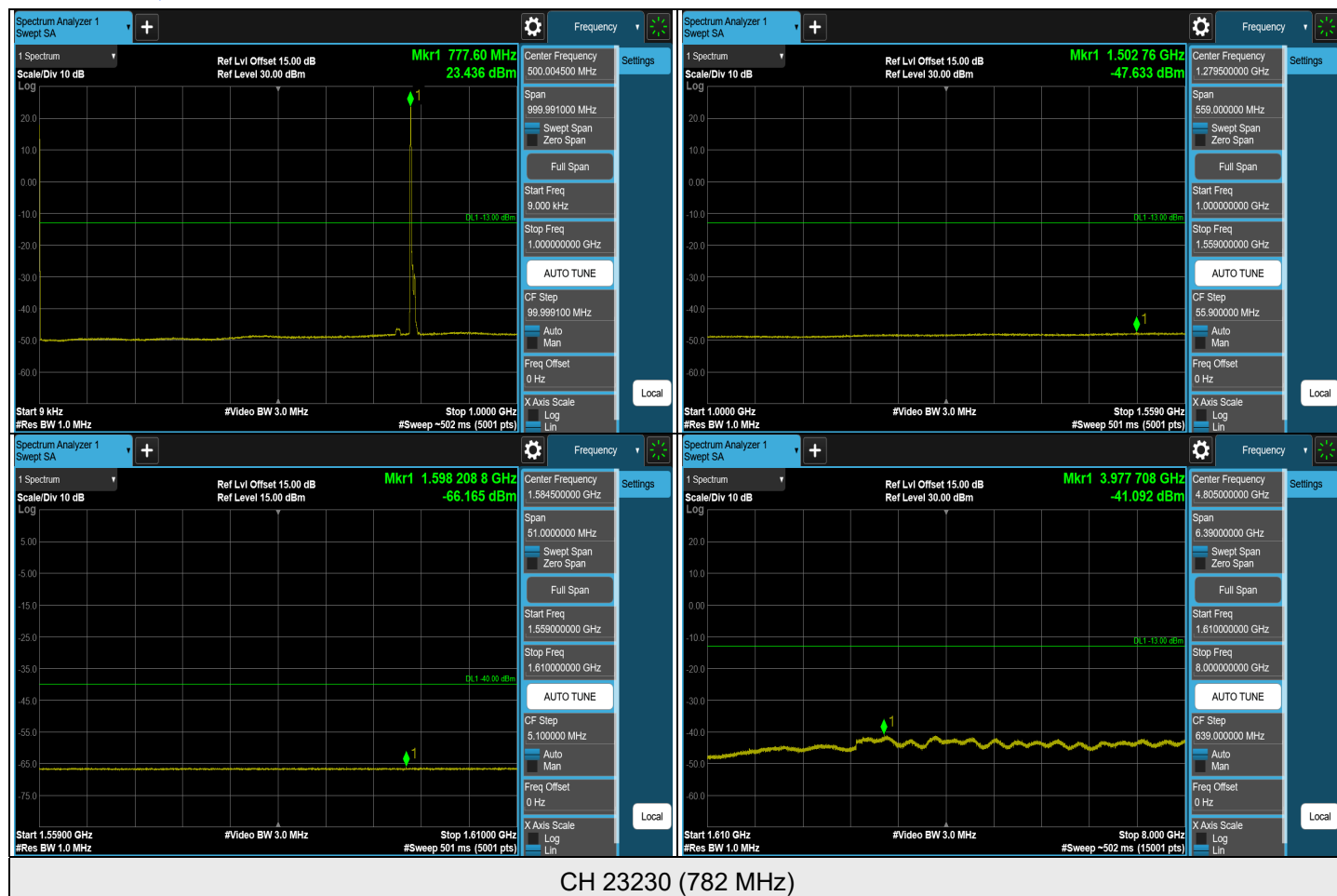


LTE Band 13, Channel Bandwidth: 5 MHz

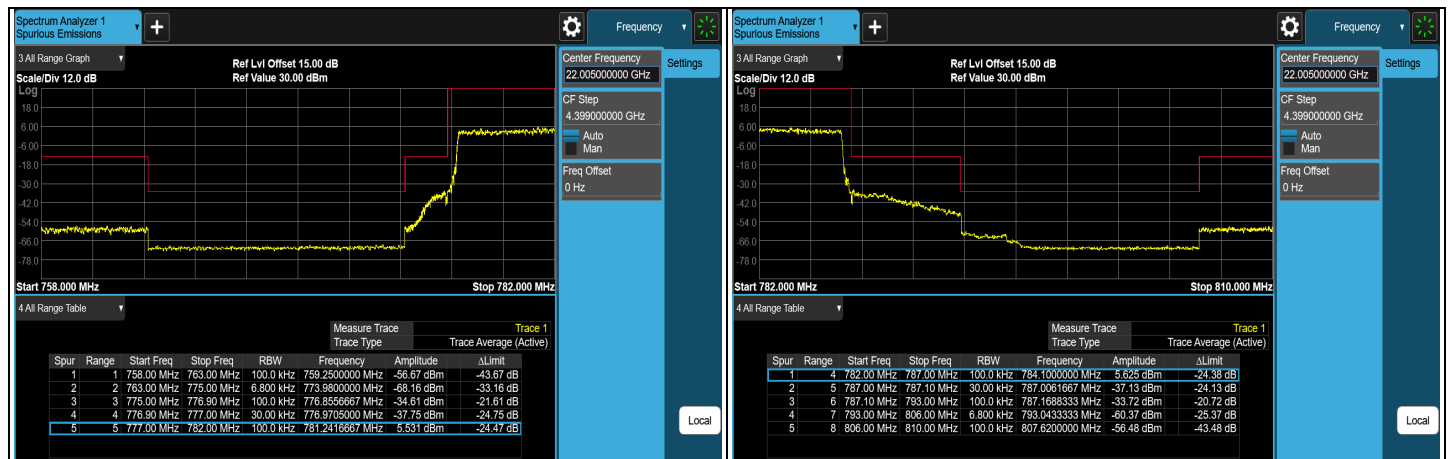


LTE Band 13, Channel Bandwidth: 10 MHz

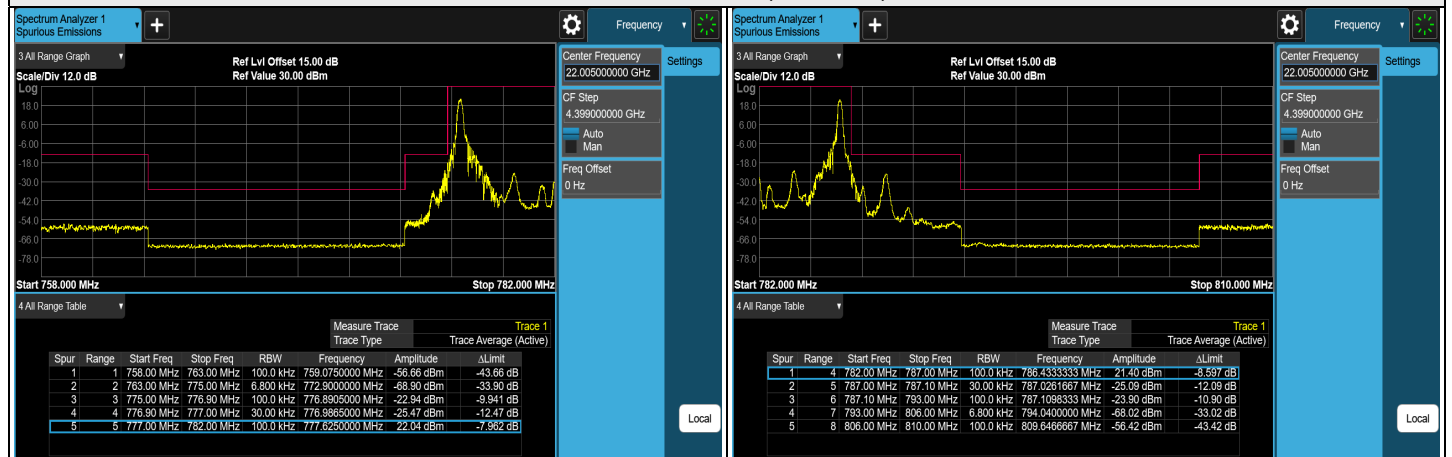


Note: The signal at 9 kHz is IF signal from spectrum analyzer.

LTE Band 13, Channel Bandwidth: 10 MHz



FULL CH 23230 (782 MHz)



1RB CH 23230 (782 MHz)

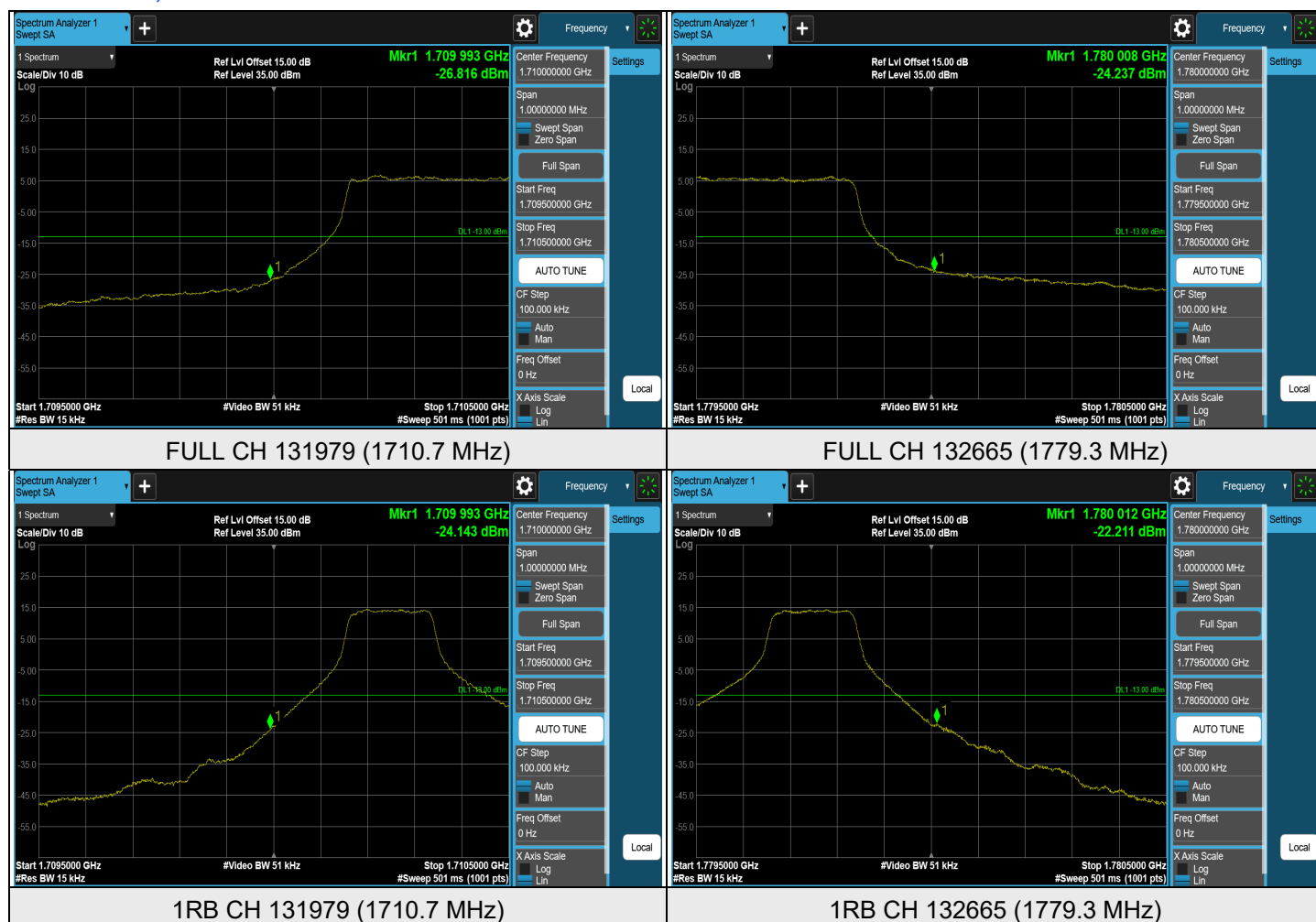
7.5.4 LTE Band 66

LTE Band 66, Channel Bandwidth: 1.4 MHz

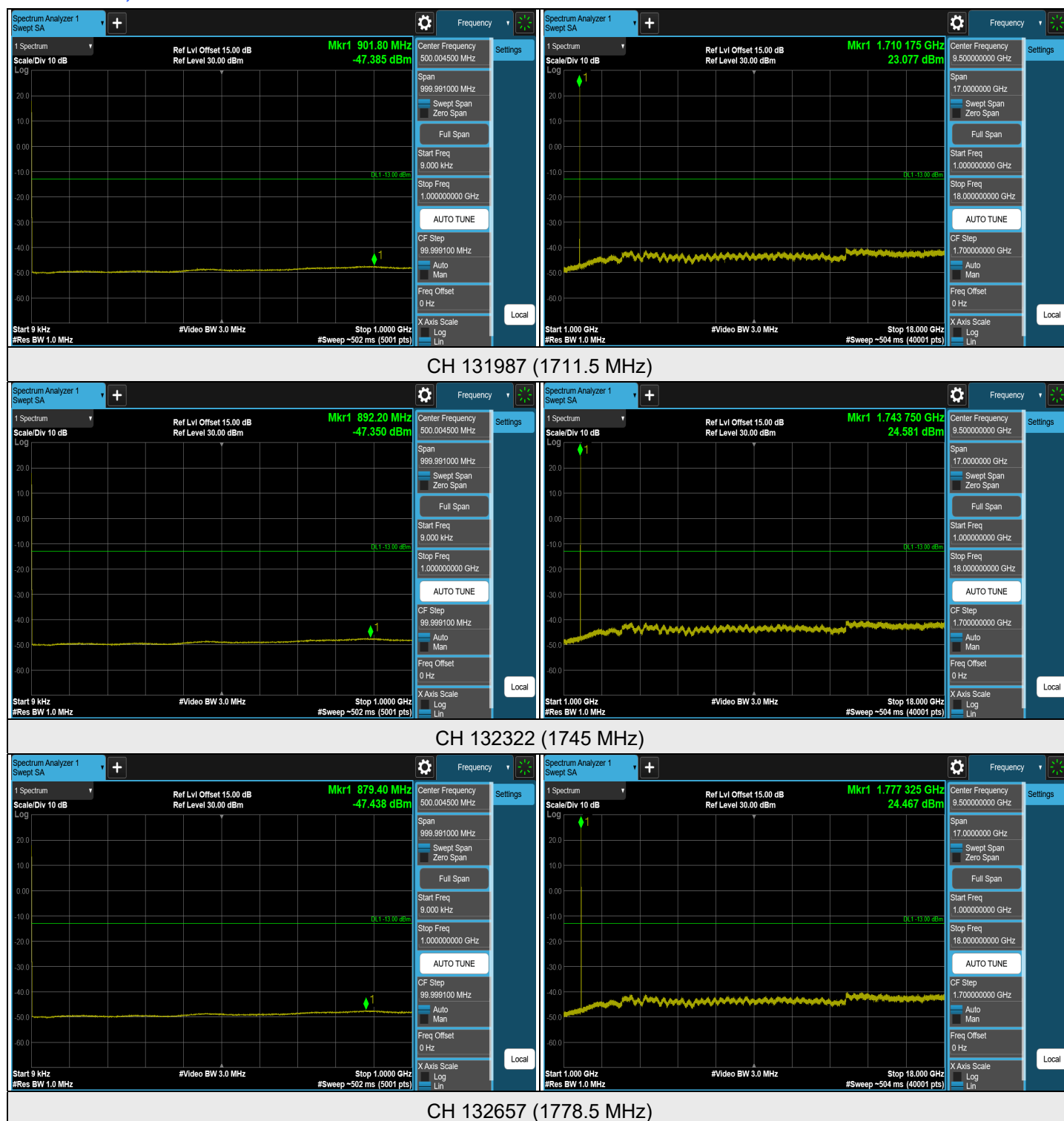


Note: The signal at 9 kHz is IF signal from spectrum analyzer.

LTE Band 66, Channel Bandwidth: 1.4 MHz

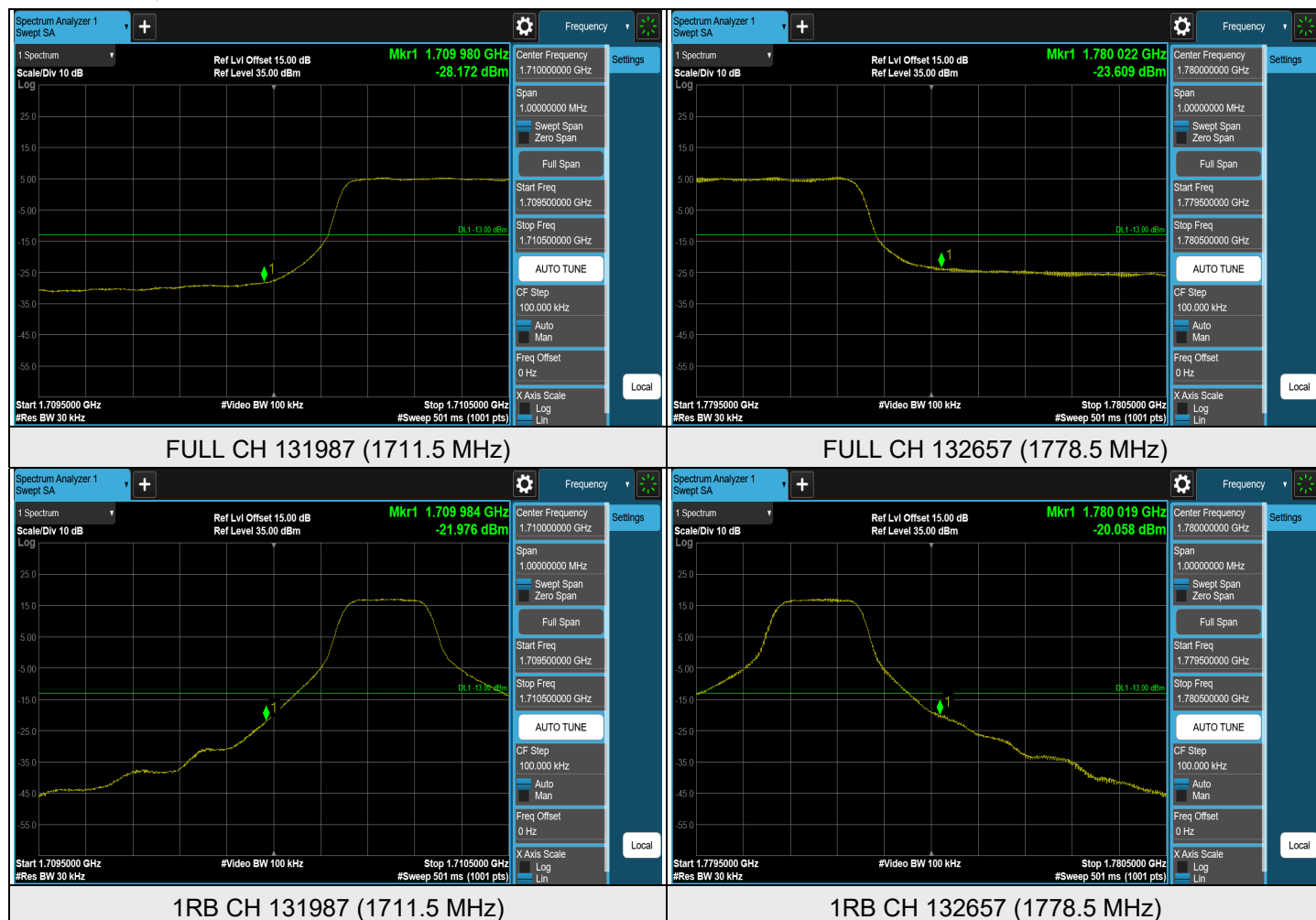


LTE Band 66, Channel Bandwidth: 3 MHz

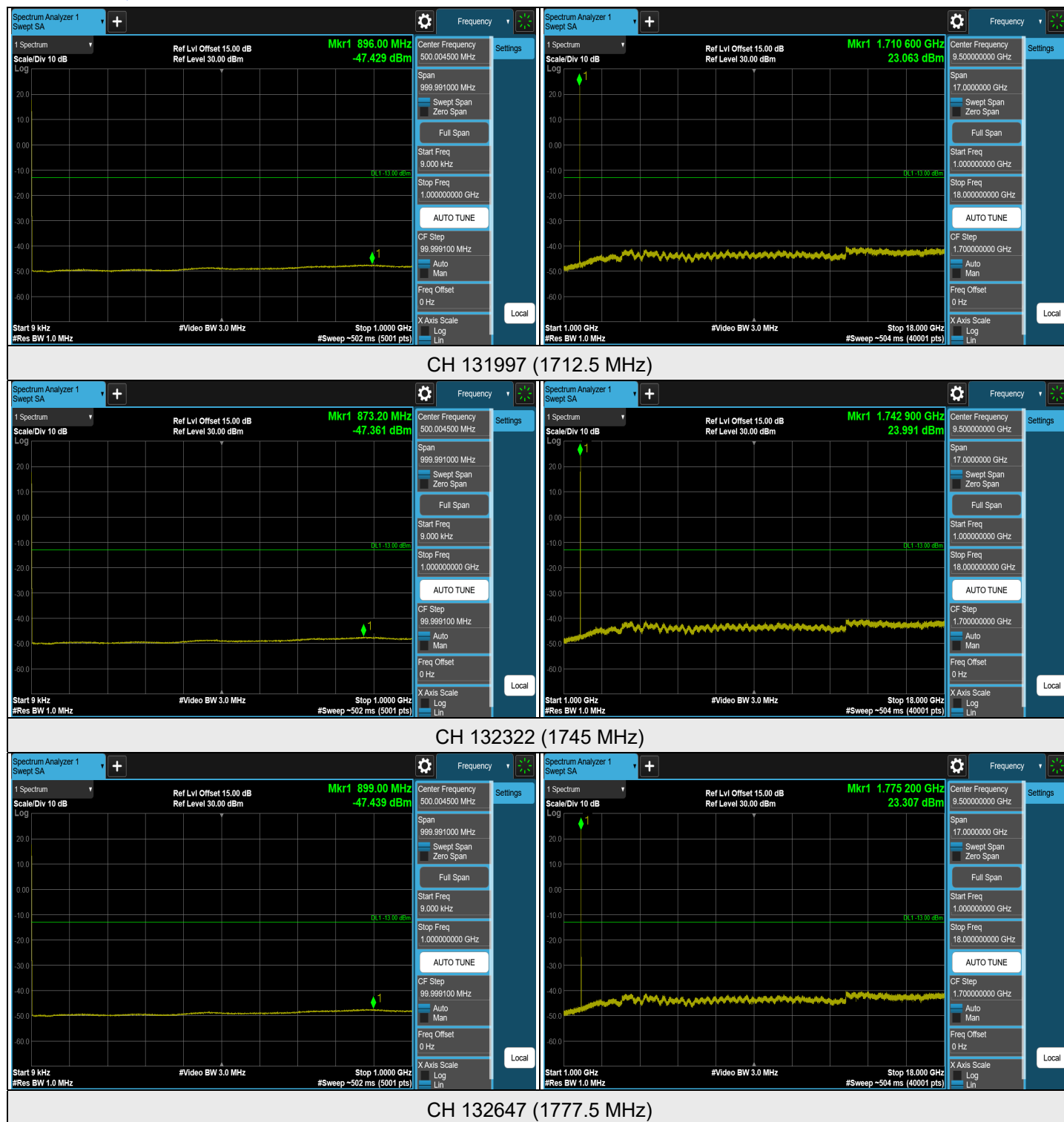


Note: The signal at 9 kHz is IF signal from spectrum analyzer.

LTE Band 66, Channel Bandwidth: 3 MHz

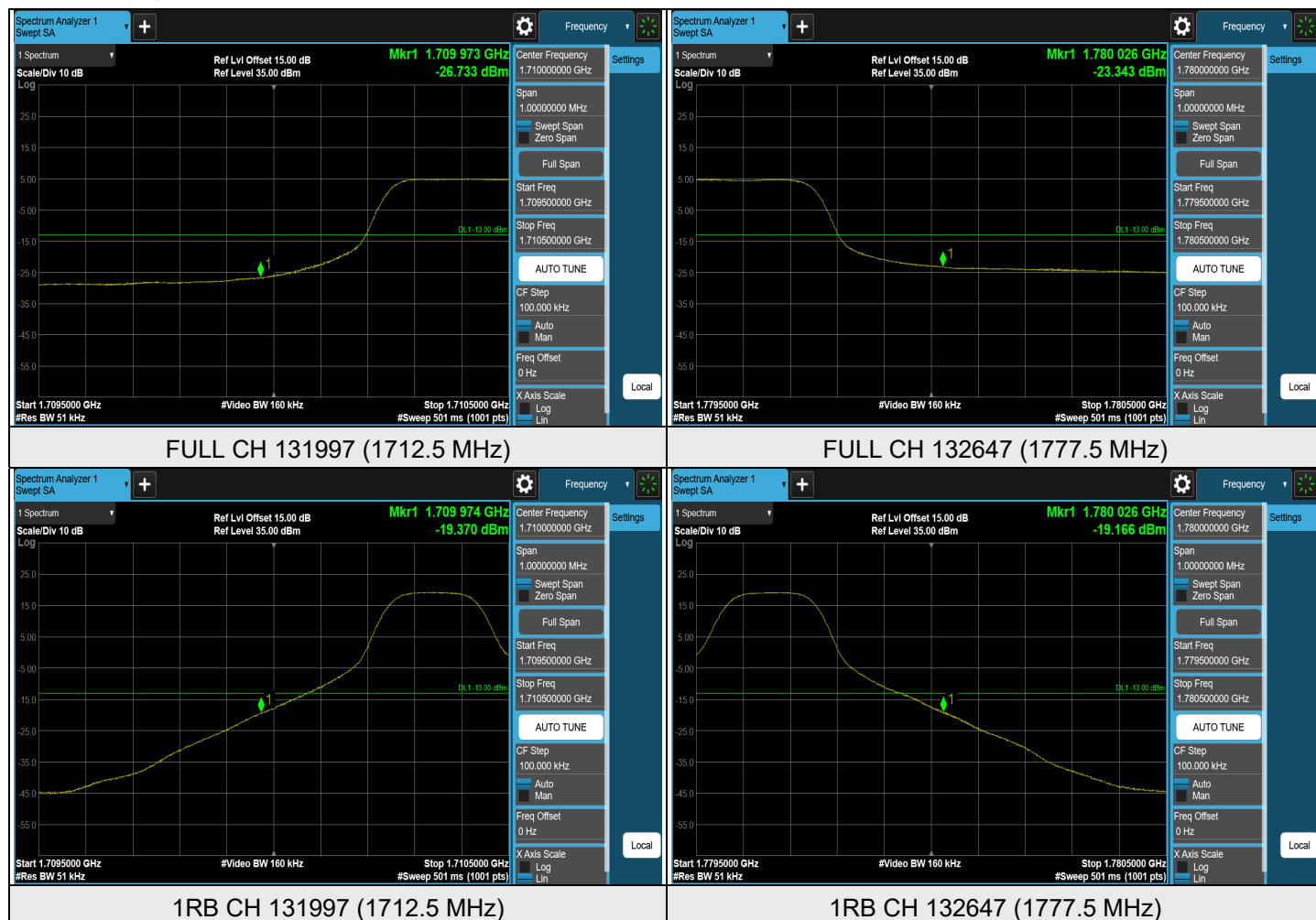


LTE Band 66, Channel Bandwidth: 5 MHz

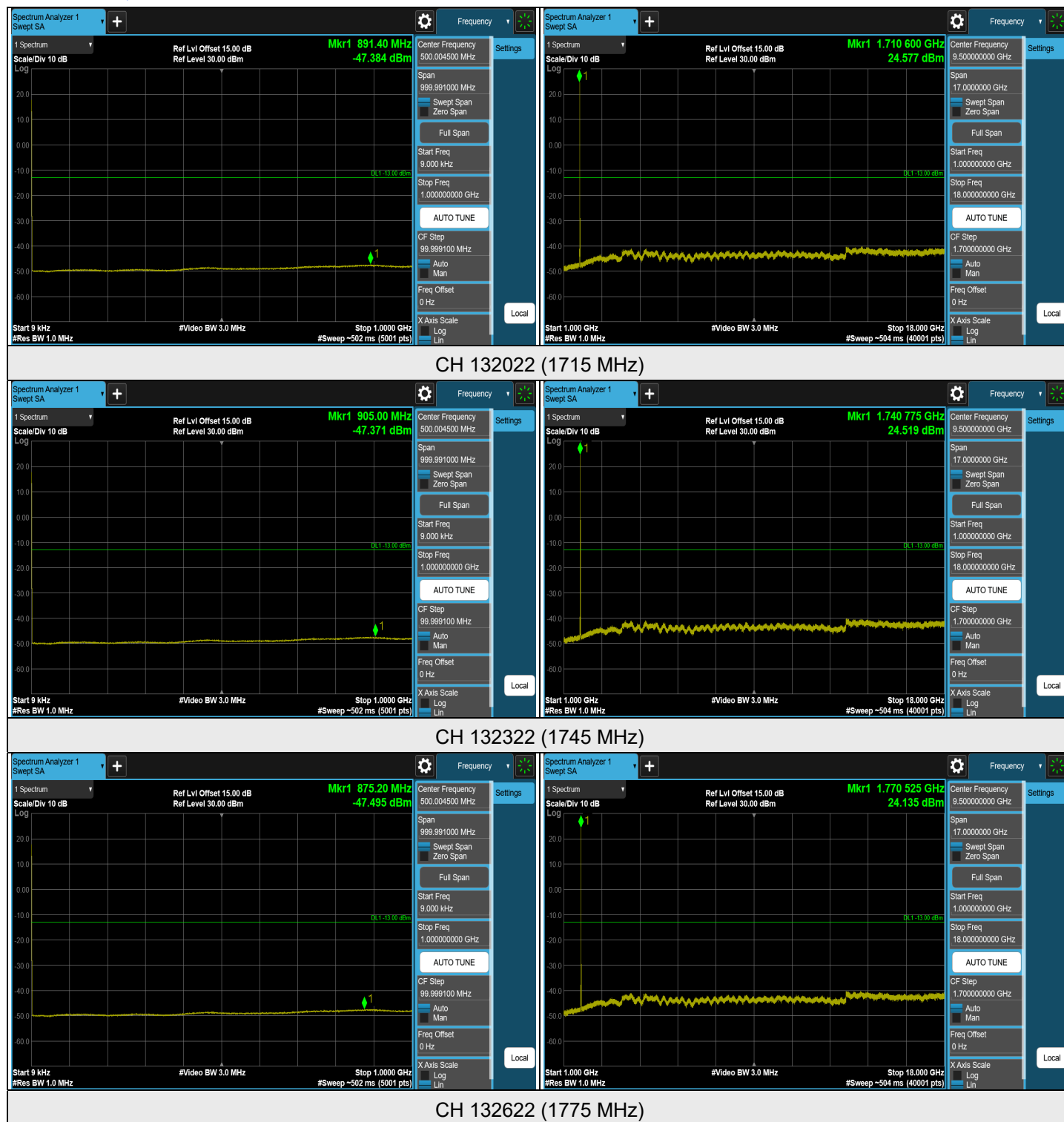


Note: The signal at 9 kHz is IF signal from spectrum analyzer.

LTE Band 66, Channel Bandwidth: 5 MHz

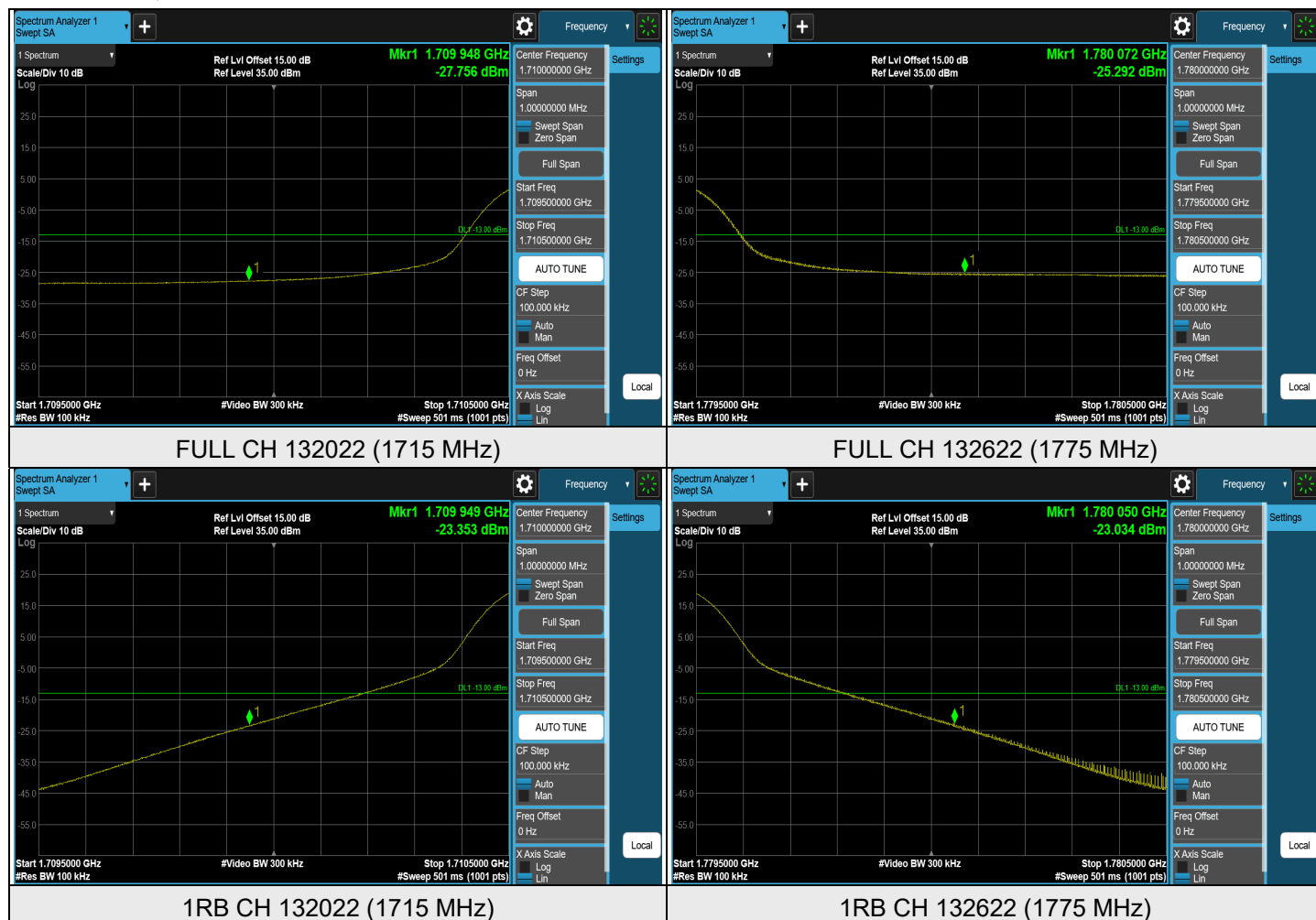


LTE Band 66, Channel Bandwidth: 10 MHz

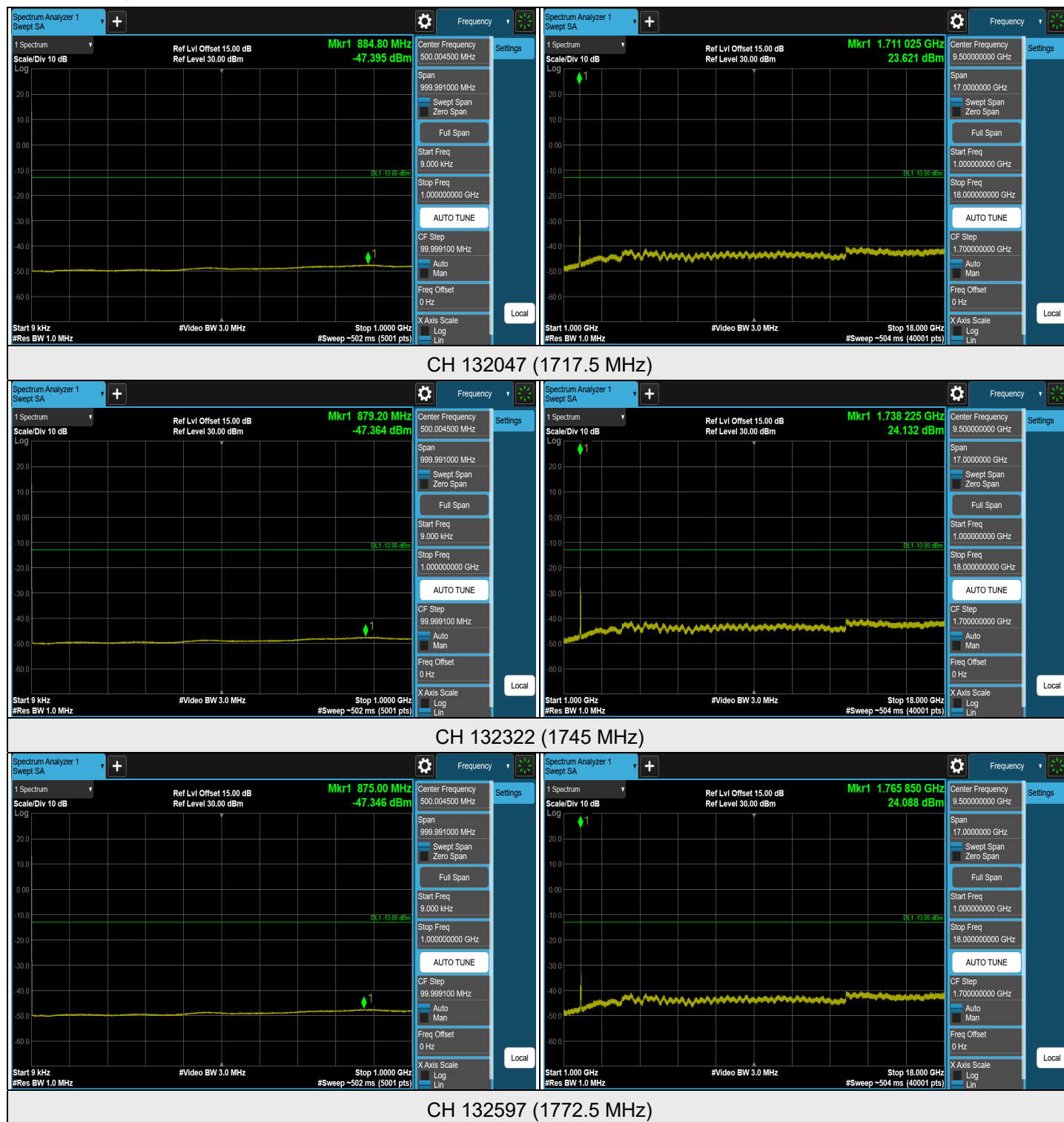


Note: The signal at 9 kHz is IF signal from spectrum analyzer.

LTE Band 66, Channel Bandwidth: 10 MHz

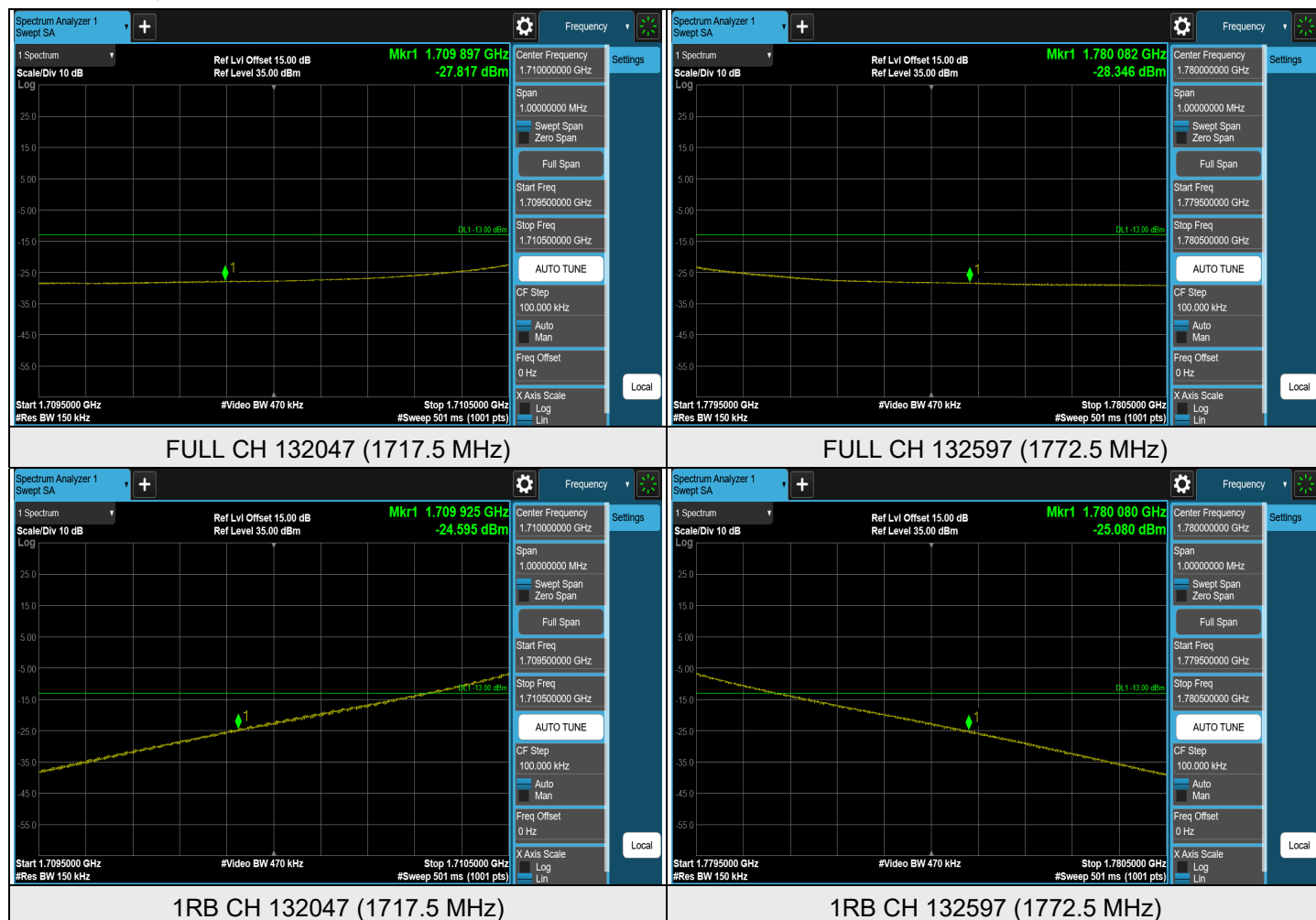


LTE Band 66, Channel Bandwidth: 15 MHz

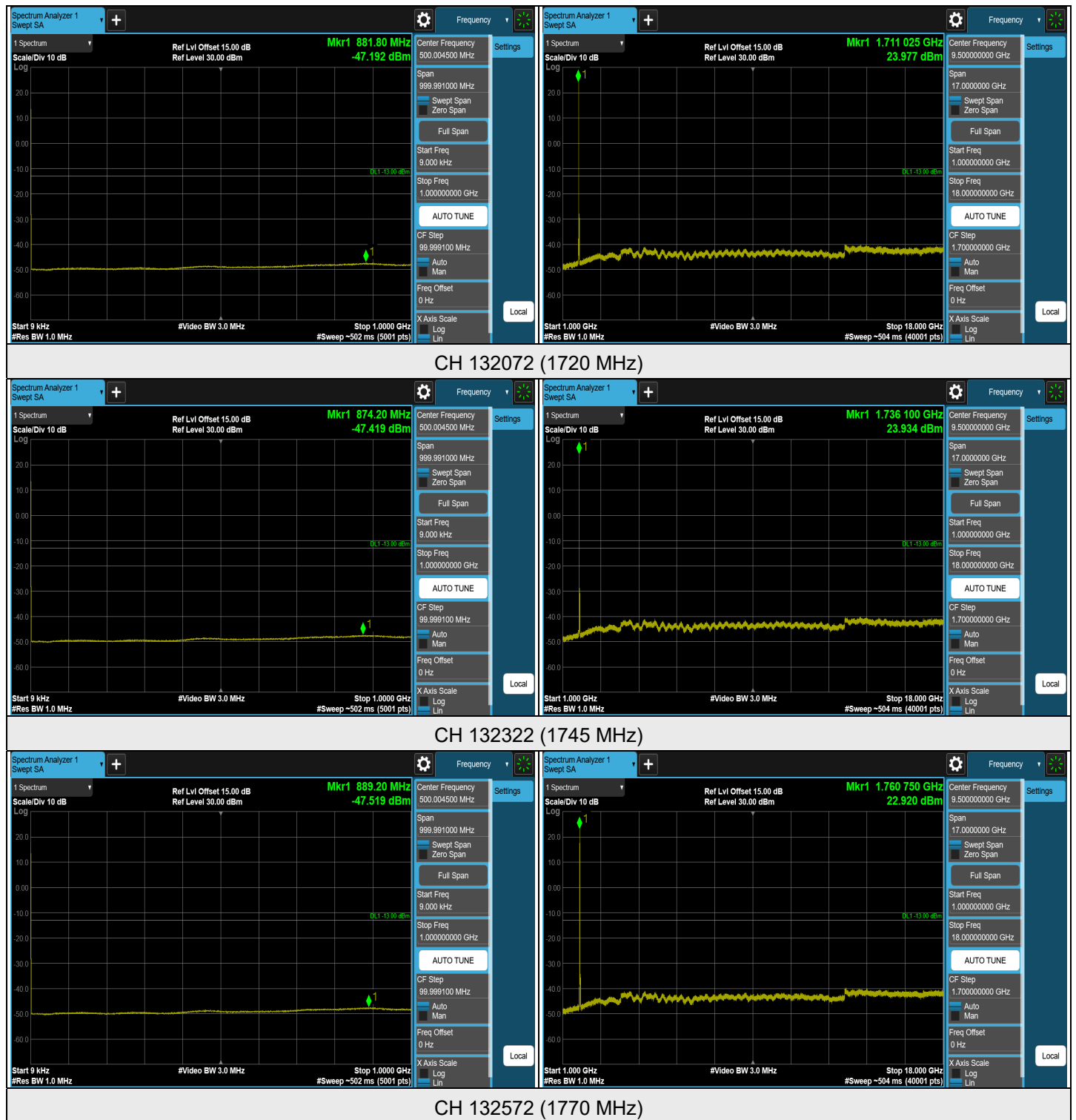


Note: The signal at 9 kHz is IF signal from spectrum analyzer.

LTE Band 66, Channel Bandwidth: 15 MHz

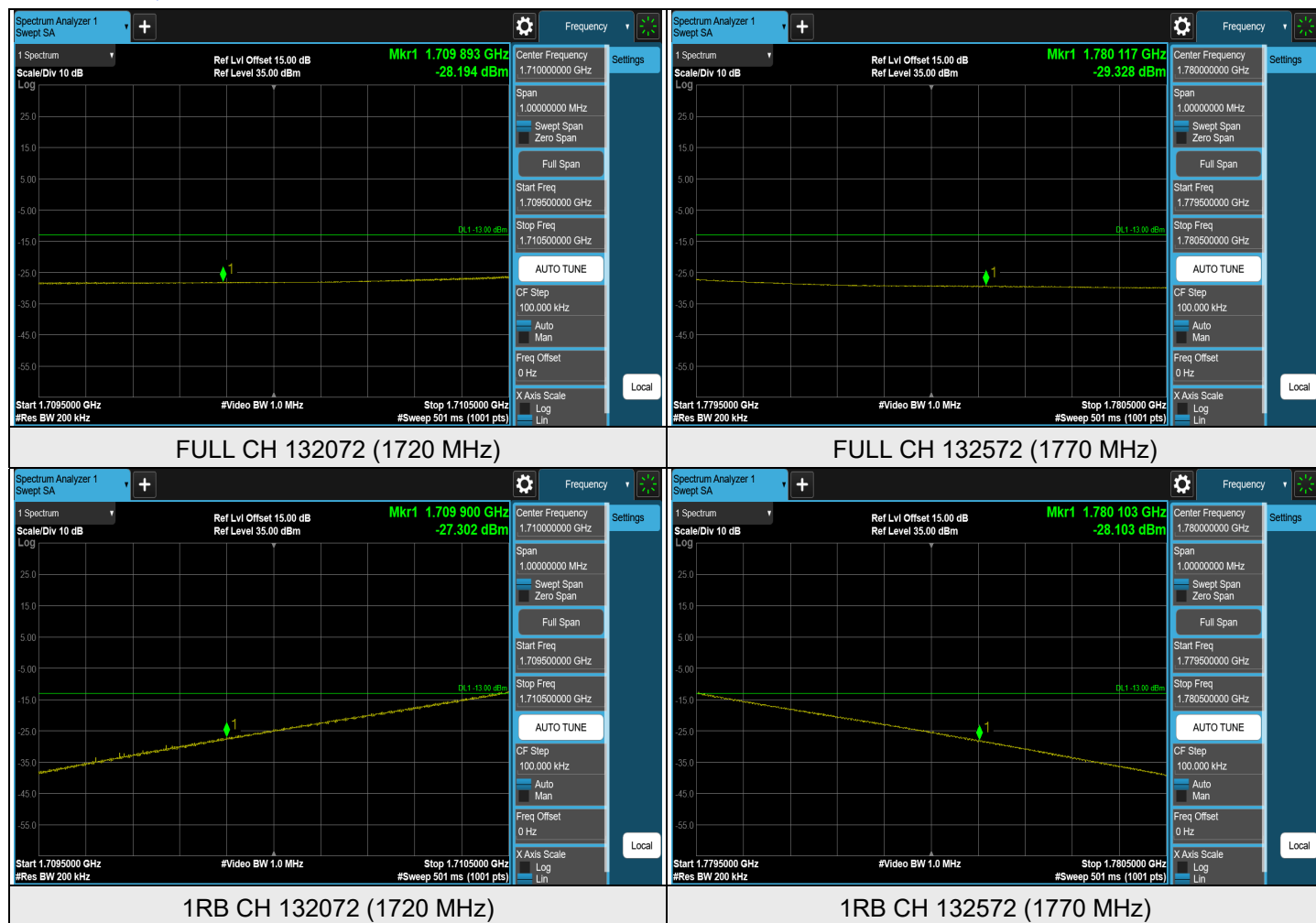


LTE Band 66, Channel Bandwidth: 20 MHz



Note: The signal at 9 kHz is IF signal from spectrum analyzer.

LTE Band 66, Channel Bandwidth: 20 MHz



7.6 Radiated Spurious Emissions below 1GHz

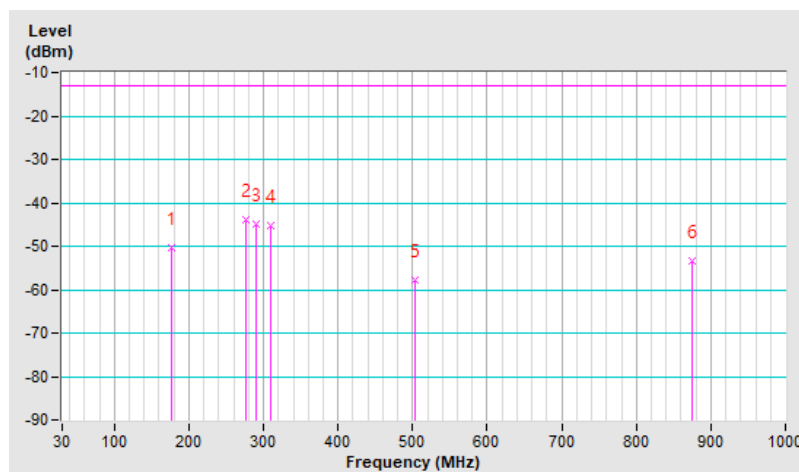
7.6.1 LTE Band 2

RF Mode	LTE Band 2 Channel Bandwidth: 20MHz	Channel	CH 19100 : 1900 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 66 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	176.47	-50.26	-13.00	-37.26	1.15 H	154	58.88	-109.14
2	276.38	-43.73	-13.00	-30.73	1.68 H	163	64.58	-108.31
3	290.93	-44.82	-13.00	-31.82	1.78 H	290	63.09	-107.91
4	310.33	-45.13	-13.00	-32.13	1.57 H	121	62.25	-107.38
5	503.36	-57.68	-13.00	-44.68	1.87 H	88	45.15	-102.83
6	874.87	-53.29	-13.00	-40.29	1.64 H	196	43.23	-96.52

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

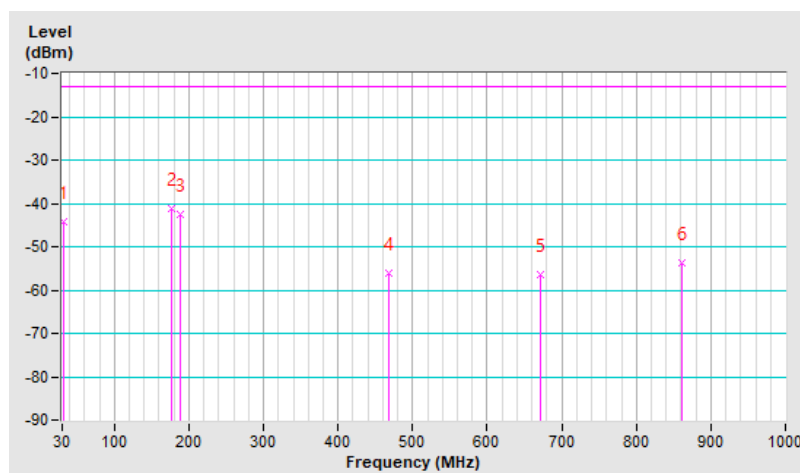


RF Mode	LTE Band 2 Channel Bandwidth: 20MHz	Channel	CH 19100 : 1900 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 66 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	32.91	-44.08	-13.00	-31.08	1.64 V	188	65.50	-109.58
2	177.44	-41.18	-13.00	-28.18	1.74 V	15	68.10	-109.28
3	189.08	-42.58	-13.00	-29.58	1.33 V	227	68.33	-110.91
4	468.44	-56.20	-13.00	-43.20	1.44 V	148	47.01	-103.21
5	672.14	-56.28	-13.00	-43.28	1.98 V	199	43.22	-99.50
6	860.32	-53.84	-13.00	-40.84	1.05 V	100	42.79	-96.63

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



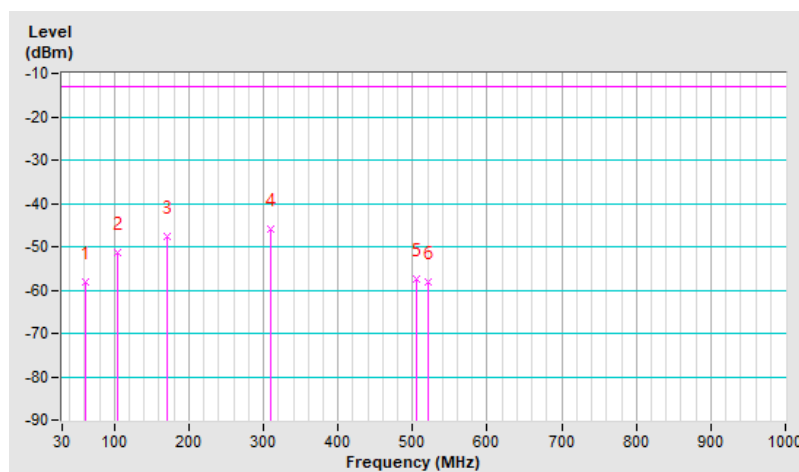
7.6.2 LTE Band 5

RF Mode	LTE Band 5 Channel Bandwidth: 1.4MHz	Channel	CH 20643 : 848.3 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 66 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	62.01	-57.97	-13.00	-44.97	1.57 H	118	53.63	-111.60
2	104.69	-51.37	-13.00	-38.37	1.64 H	329	62.74	-114.11
3	170.65	-47.57	-13.00	-34.57	1.57 H	170	63.07	-110.64
4	309.36	-46.09	-13.00	-33.09	1.15 H	157	63.47	-109.56
5	504.33	-57.42	-13.00	-44.42	1.57 H	260	47.54	-104.96
6	521.79	-58.20	-13.00	-45.20	1.99 H	307	46.44	-104.64

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
+ 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

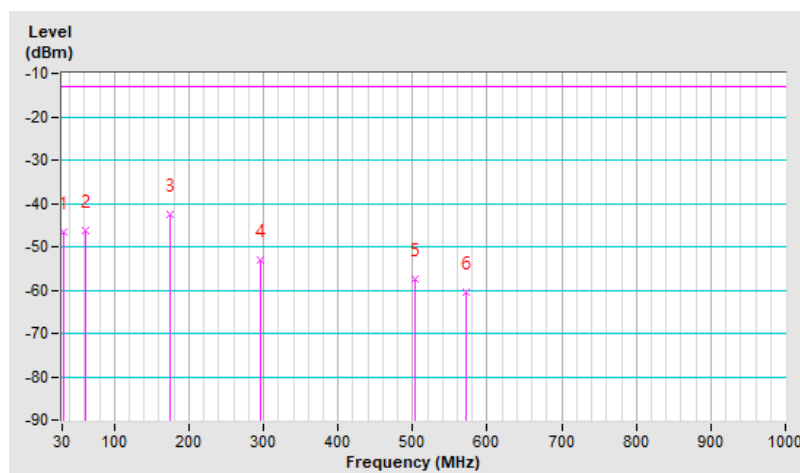


RF Mode	LTE Band 5 Channel Bandwidth: 1.4MHz	Channel	CH 20643 : 848.3 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 66 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	32.91	-46.61	-13.00	-33.61	1.00 V	180	65.12	-111.73
2	62.01	-46.18	-13.00	-33.18	1.67 V	115	65.42	-111.60
3	175.50	-42.62	-13.00	-29.62	1.97 V	157	68.50	-111.12
4	296.75	-53.13	-13.00	-40.13	1.67 V	229	56.81	-109.94
5	502.39	-57.57	-13.00	-44.57	1.57 V	209	47.42	-104.99
6	571.26	-60.46	-13.00	-47.46	1.15 V	3	42.91	-103.37

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



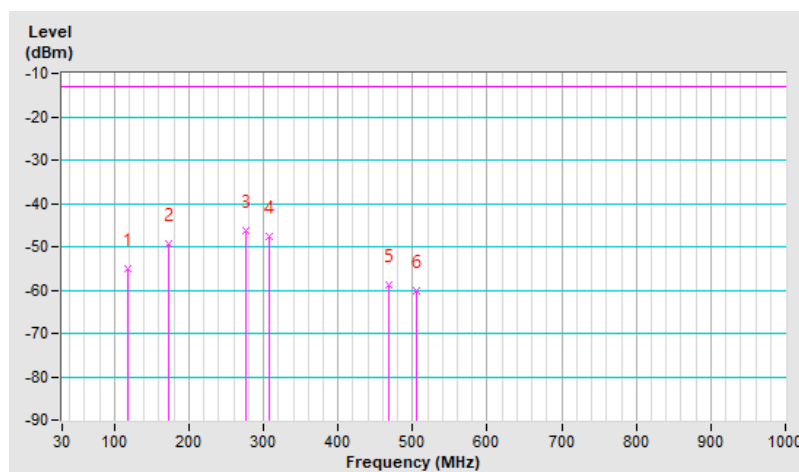
7.6.3 LTE Band 13

RF Mode	LTE Band 13 Channel Bandwidth: 10MHz	Channel	CH 23230 : 782 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 66 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	117.30	-55.00	-13.00	-42.00	1.17 H	34	57.81	-112.81
2	172.59	-49.48	-13.00	-36.48	1.57 H	126	61.35	-110.83
3	276.38	-46.28	-13.00	-33.28	1.67 H	319	64.18	-110.46
4	308.39	-47.67	-13.00	-34.67	1.67 H	9	61.93	-109.60
5	468.44	-58.71	-13.00	-45.71	1.08 H	222	46.65	-105.36
6	504.33	-60.14	-13.00	-47.14	1.67 H	329	44.82	-104.96

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
+ 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

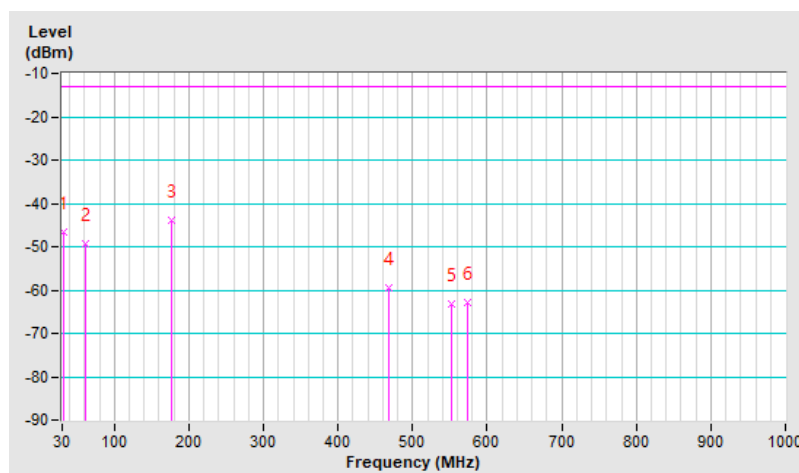


RF Mode	LTE Band 13 Channel Bandwidth: 10MHz	Channel	CH 23230 : 782 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 66 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	32.91	-46.49	-13.00	-33.49	1.57 V	187	65.24	-111.73
2	62.01	-49.27	-13.00	-36.27	1.67 V	215	62.33	-111.60
3	176.47	-43.75	-13.00	-30.75	1.17 V	157	67.54	-111.29
4	468.44	-59.60	-13.00	-46.60	1.05 V	200	45.76	-105.36
5	551.86	-63.22	-13.00	-50.22	1.67 V	119	40.79	-104.01
6	574.17	-62.96	-13.00	-49.96	1.38 V	9	40.33	-103.29

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



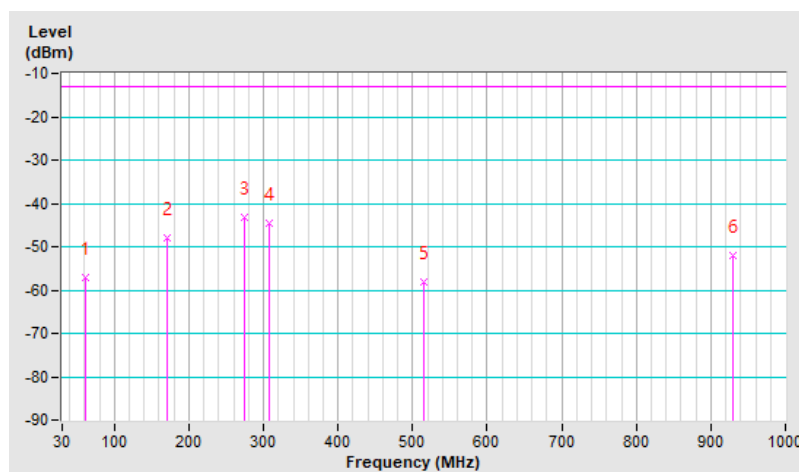
7.6.4 LTE Band 66

RF Mode	LTE Band 66 Channel Bandwidth: 20MHz	Channel	CH 132072 : 1720 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 66 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	62.01	-57.04	-13.00	-44.04	1.08 H	110	52.41	-109.45
2	170.65	-48.06	-13.00	-35.06	1.57 H	170	60.43	-108.49
3	274.44	-43.12	-13.00	-30.12	1.57 H	166	65.30	-108.42
4	307.42	-44.57	-13.00	-31.57	1.67 H	26	62.91	-107.48
5	515.97	-58.20	-13.00	-45.20	1.18 H	8	44.39	-102.59
6	929.19	-52.20	-13.00	-39.20	1.37 H	319	43.55	-95.75

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

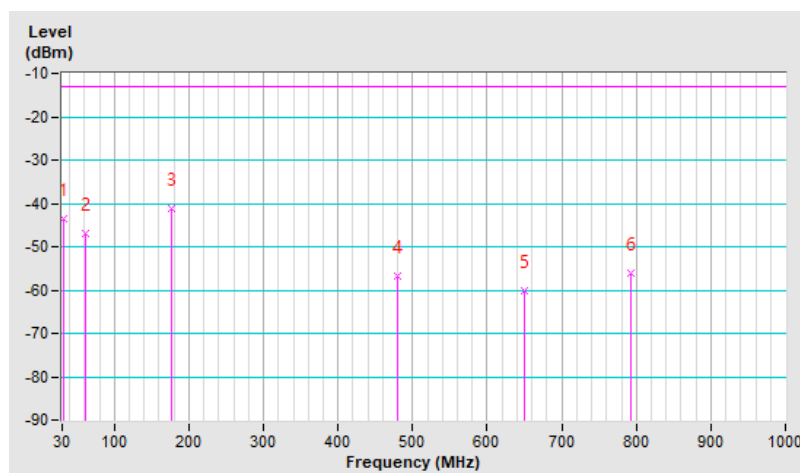


RF Mode	LTE Band 66 Channel Bandwidth: 20MHz	Channel	CH 132072 : 1720 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 66 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	32.91	-43.43	-13.00	-30.43	1.27 V	191	66.15	-109.58
2	61.04	-46.88	-13.00	-33.88	1.61 V	105	62.27	-109.15
3	176.47	-41.21	-13.00	-28.21	1.67 V	114	67.93	-109.14
4	479.11	-56.63	-13.00	-43.63	1.57 V	1	46.42	-103.05
5	650.80	-60.25	-13.00	-47.25	1.98 V	88	39.41	-99.66
6	793.39	-56.04	-13.00	-43.04	1.09 V	339	41.27	-97.31

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



7.7 Radiated Spurious Emissions above 1GHz

7.7.1 LTE Band 2

RF Mode	LTE Band 2 Channel Bandwidth: 1.4MHz	Channel	CH 18607 : 1850.7 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3701.40	-50.89	-13.00	-37.89	1.67 H	187	40.74	-91.63
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3701.40	-49.12	-13.00	-36.12	1.51 V	155	42.51	-91.63

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 2 Channel Bandwidth: 1.4MHz	Channel	CH 18900 : 1880 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-50.90	-13.00	-37.90	1.55 H	39	40.32	-91.22
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-48.91	-13.00	-35.91	1.67 V	155	42.31	-91.22

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 2 Channel Bandwidth: 1.4MHz	Channel	CH 19193 : 1909.3 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3818.60	-47.25	-13.00	-34.25	1.48 H	37	43.61	-90.86
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3818.60	-44.69	-13.00	-31.69	1.53 V	155	46.17	-90.86

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 2 Channel Bandwidth: 5MHz	Channel	CH 18625 : 1852.5 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3705.00	-51.01	-13.00	-38.01	1.36 H	228	40.60	-91.61
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3705.00	-49.81	-13.00	-36.81	1.65 V	150	41.80	-91.61

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 2 Channel Bandwidth: 5MHz	Channel	CH 18900 : 1880 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-50.82	-13.00	-37.82	1.53 H	38	40.40	-91.22
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-48.42	-13.00	-35.42	1.69 V	153	42.80	-91.22

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 2 Channel Bandwidth: 5MHz	Channel	CH 19175 : 1907.5 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3815.00	-47.55	-13.00	-34.55	1.56 H	40	43.33	-90.88
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3815.00	-46.05	-13.00	-33.05	1.50 V	159	44.83	-90.88

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 2 Channel Bandwidth: 20MHz	Channel	CH 18700 : 1860 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	-50.50	-13.00	-37.50	1.57 H	180	41.00	-91.50
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	-49.88	-13.00	-36.88	1.57 V	111	41.62	-91.50

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 2 Channel Bandwidth: 20MHz	Channel	CH 18900 : 1880 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-51.46	-13.00	-38.46	1.57 H	111	39.76	-91.22
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-45.55	-13.00	-32.55	1.51 V	316	45.67	-91.22

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 2 Channel Bandwidth: 20MHz	Channel	CH 19100 : 1900 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3800.00	-45.85	-13.00	-32.85	1.51 H	38	45.10	-90.95
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3800.00	-43.74	-13.00	-30.74	1.69 V	166	47.21	-90.95

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

7.7.2 LTE Band 5

RF Mode	LTE Band 5 Channel Bandwidth: 1.4MHz	Channel	CH 20407 : 824.7 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1649.40	-50.55	-13.00	-37.55	1.57 H	111	51.17	-101.72
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1649.40	-49.81	-13.00	-36.81	1.64 V	218	51.91	-101.72

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.

RF Mode	LTE Band 5 Channel Bandwidth: 1.4MHz	Channel	CH 20525 : 836.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1673.00	-50.39	-13.00	-37.39	1.66 H	137	51.24	-101.63
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1673.00	-50.00	-13.00	-37.00	1.57 V	195	51.63	-101.63

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
+ 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit.

RF Mode	LTE Band 5 Channel Bandwidth: 1.4MHz	Channel	CH 20643 : 848.3 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1696.60	-49.77	-13.00	-36.77	1.57 H	200	51.79	-101.56
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1696.60	-49.23	-13.00	-36.23	1.64 V	195	52.33	-101.56

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
+ 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit.

RF Mode	LTE Band 5 Channel Bandwidth: 5MHz	Channel	CH 20425 : 826.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1653.00	-50.19	-13.00	-37.19	1.43 H	197	51.51	-101.70
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1653.00	-49.64	-13.00	-36.64	1.53 V	236	52.06	-101.70

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
+ 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit.

RF Mode	LTE Band 5 Channel Bandwidth: 5MHz	Channel	CH 20525 : 836.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1673.00	-50.25	-13.00	-37.25	1.57 H	101	51.38	-101.63
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1673.00	-49.84	-13.00	-36.84	1.45 V	329	51.79	-101.63

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

RF Mode	LTE Band 5 Channel Bandwidth: 5MHz	Channel	CH 20625 : 846.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1693.00	-50.02	-13.00	-37.02	1.57 H	111	51.54	-101.56
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1693.00	-49.29	-13.00	-36.29	1.15 V	104	52.27	-101.56

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
+ 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit.

RF Mode	LTE Band 5 Channel Bandwidth: 10MHz	Channel	CH 20450 : 829 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1658.00	-50.58	-13.00	-37.58	1.01 H	157	51.10	-101.68
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1658.00	-49.45	-13.00	-36.45	1.56 V	322	52.23	-101.68

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.

RF Mode	LTE Band 5 Channel Bandwidth: 10MHz	Channel	CH 20525 : 836.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1673.00	-50.59	-13.00	-37.59	1.57 H	193	51.04	-101.63
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1673.00	-50.22	-13.00	-37.22	1.64 V	180	51.41	-101.63

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

RF Mode	LTE Band 5 Channel Bandwidth: 10MHz	Channel	CH 20600 : 844 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1688.00	-50.22	-13.00	-37.22	1.54 H	188	51.36	-101.58
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1688.00	-48.76	-13.00	-35.76	1.51 V	229	52.82	-101.58

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

7.7.3 LTE Band 13

RF Mode	LTE Band 13 Channel Bandwidth: 5MHz	Channel	CH 23205 : 779.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1559.00	-47.60	-40.00	-7.60	2.15 H	149	52.33	-99.93
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1559.00	-48.14	-40.00	-8.14	1.68 V	61	51.79	-99.93

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 13 Channel Bandwidth: 5MHz	Channel	CH 23230 : 782 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1564.00	-47.67	-40.00	-7.67	2.15 H	149	52.24	-99.91
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1564.00	-48.43	-40.00	-8.43	1.68 V	66	51.48	-99.91

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 13 Channel Bandwidth: 5MHz	Channel	CH 23255 : 784.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1569.00	-48.73	-40.00	-8.73	2.15 H	150	51.17	-99.90
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1569.00	-48.96	-40.00	-8.96	1.68 V	68	50.94	-99.90

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 13 Channel Bandwidth: 10MHz	Channel	CH 23230 : 782 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1564.00	-41.60	-40.00	-1.60	2.15 H	149	58.31	-99.91
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1564.00	-42.55	-40.00	-2.55	1.68 V	67	57.36	-99.91

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

7.7.4 LTE Band 66

RF Mode	LTE Band 66 Channel Bandwidth: 1.4MHz	Channel	CH 131979 : 1710.7 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3421.40	-42.99	-13.00	-29.99	1.51 H	154	49.99	-92.98
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3421.40	-42.40	-13.00	-29.40	1.52 V	149	50.58	-92.98

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 66 Channel Bandwidth: 1.4MHz	Channel	CH 132322 : 1745 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3490.00	-42.24	-13.00	-29.24	1.50 H	150	50.56	-92.80
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3490.00	-41.55	-13.00	-28.55	1.53 V	155	51.25	-92.80

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 66 Channel Bandwidth: 1.4MHz	Channel	CH 132665 : 1779.3 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3558.60	-42.24	-13.00	-29.24	1.44 H	148	50.26	-92.50
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3558.60	-40.97	-13.00	-27.97	1.57 V	159	51.53	-92.50

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 66 Channel Bandwidth: 5MHz	Channel	CH 131997 : 1712.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3425.00	-41.96	-13.00	-28.96	1.50 H	154	51.02	-92.98
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3425.00	-41.09	-13.00	-28.09	1.51 V	149	51.89	-92.98

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 66 Channel Bandwidth: 5MHz	Channel	CH 132322 : 1745 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3490.00	-41.91	-13.00	-28.91	1.49 H	149	50.89	-92.80
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3490.00	-41.41	-13.00	-28.41	1.53 V	154	51.39	-92.80

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 66 Channel Bandwidth: 5MHz	Channel	CH 132647 : 1777.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3555.00	-41.75	-13.00	-28.75	1.53 H	160	50.77	-92.52
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3555.00	-40.87	-13.00	-27.87	1.45 V	156	51.65	-92.52

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 66 Channel Bandwidth: 20MHz	Channel	CH 132072 : 1720 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3440.00	-38.08	-13.00	-25.08	1.54 H	159	54.92	-93.00
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3440.00	-43.13	-13.00	-30.13	1.93 V	326	49.87	-93.00

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 66 Channel Bandwidth: 20MHz	Channel	CH 132322 : 1745 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3490.00	-41.97	-13.00	-28.97	1.37 H	220	50.83	-92.80
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3490.00	-41.17	-13.00	-28.17	1.80 V	192	51.63	-92.80

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 66 Channel Bandwidth: 20MHz	Channel	CH 132572 : 1770 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3540.00	-41.79	-13.00	-28.79	1.50 H	209	50.80	-92.59
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3540.00	-39.69	-13.00	-26.69	1.50 V	156	52.90	-92.59

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

7.8 Frequency Stability

Environmental Conditions:	25°C, 67% RH	Tested By:	Noah Chang
---------------------------	--------------	------------	------------

7.8.1 LTE Band 2

LTE Band 2, Channel Bandwidth: 1.4 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 18607 (1850.7 MHz)		CH 19193 (1909.3 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
6.12	1850.699997	-0.0016	1909.299999	-0.0005
7.2	1850.700001	0.0005	1909.300004	0.0021
8.28	1850.700004	0.0022	1909.300004	0.0021

Note: The applicant defined the normal working voltage is from 6.12 to 8.28 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 18607 (1850.7 MHz)		CH 19193 (1909.3 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1850.700006	0.0032	1909.300009	0.0047
-20	1850.700003	0.0016	1909.300002	0.001
-10	1850.699993	-0.0038	1909.299995	-0.0026
0	1850.699992	-0.0043	1909.29999	-0.0052
10	1850.700002	0.0011	1909.300002	0.001
20	1850.700002	0.0011	1909.299998	-0.001
30	1850.699993	-0.0038	1909.299994	-0.0031
40	1850.699998	-0.0011	1909.299997	-0.0016
50	1850.699995	-0.0027	1909.299996	-0.0021

LTE Band 2, Channel Bandwidth: 3 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 18615 (1851.5 MHz)		CH 19185 (1908.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
6.12	1851.500001	0.0005	1908.500006	0.0031
7.2	1851.499998	-0.0011	1908.500002	0.001
8.28	1851.500004	0.0022	1908.500005	0.0026

Note: The applicant defined the normal working voltage is from 6.12 to 8.28 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 18615 (1851.5 MHz)		CH 19185 (1908.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1851.500007	0.0038	1908.500008	0.0042
-20	1851.500002	0.0011	1908.500003	0.0016
-10	1851.500007	0.0038	1908.500002	0.001
0	1851.500008	0.0043	1908.500008	0.0042
10	1851.500006	0.0032	1908.500002	0.001
20	1851.500001	0.0005	1908.500005	0.0026
30	1851.500006	0.0032	1908.500007	0.0037
40	1851.499994	-0.0032	1908.499993	-0.0037
50	1851.499992	-0.0043	1908.499995	-0.0026

LTE Band 2, Channel Bandwidth: 5 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 18625 (1852.5 MHz)		CH 19175 (1907.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
6.12	1852.500008	0.0043	1907.500008	0.0042
7.2	1852.500005	0.0027	1907.500007	0.0037
8.28	1852.499991	-0.0049	1907.499993	-0.0037

Note: The applicant defined the normal working voltage is from 6.12 to 8.28 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 18625 (1852.5 MHz)		CH 19175 (1907.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1852.50001	0.0054	1907.50001	0.0052
-20	1852.500005	0.0027	1907.500006	0.0031
-10	1852.499996	-0.0022	1907.500001	0.0005
0	1852.49999	-0.0054	1907.499991	-0.0047
10	1852.500001	0.0005	1907.500004	0.0021
20	1852.499993	-0.0038	1907.499997	-0.0016
30	1852.500003	0.0016	1907.500002	0.001
40	1852.500002	0.0011	1907.499997	-0.0016
50	1852.500002	0.0011	1907.499999	-0.0005

LTE Band 2, Channel Bandwidth: 10 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 18650 (1855 MHz)		CH 19150 (1905 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
6.12	1855.000001	0.0005	1904.999999	-0.0005
7.2	1854.999997	-0.0016	1905.000001	0.0005
8.28	1854.999998	-0.0011	1904.999999	-0.0005

Note: The applicant defined the normal working voltage is from 6.12 to 8.28 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 18650 (1855 MHz)		CH 19150 (1905 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1854.999994	-0.0032	1904.999995	-0.0026
-20	1855.000001	0.0005	1905.000004	0.0021
-10	1854.999997	-0.0016	1905.000002	0.001
0	1855.000004	0.0022	1905.000005	0.0026
10	1855.000007	0.0038	1905.000004	0.0021
20	1854.999999	-0.0005	1905.000003	0.0016
30	1855.000002	0.0011	1905.000005	0.0026
40	1854.999995	-0.0027	1904.999992	-0.0042
50	1855.000004	0.0022	1905.000007	0.0037

LTE Band 2, Channel Bandwidth: 15 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 18675 (1857.5 MHz)		CH 19125 (1902.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
6.12	1857.499998	-0.0011	1902.500001	0.0005
7.2	1857.500008	0.0043	1902.500006	0.0032
8.28	1857.499993	-0.0038	1902.499991	-0.0047

Note: The applicant defined the normal working voltage is from 6.12 to 8.28 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 18675 (1857.5 MHz)		CH 19125 (1902.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1857.499997	-0.0016	1902.499995	-0.0026
-20	1857.499998	-0.0011	1902.500002	0.0011
-10	1857.500001	0.0054	1902.500006	0.0032
0	1857.500004	0.0022	1902.500009	0.0047
10	1857.500009	0.0048	1902.500007	0.0037
20	1857.499997	-0.0016	1902.499996	-0.0021
30	1857.499995	-0.0027	1902.499997	-0.0016
40	1857.499999	-0.0054	1902.499994	-0.0032
50	1857.500001	0.0005	1902.499998	-0.0011

LTE Band 2, Channel Bandwidth: 20 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 18700 (1860 MHz)		CH 19100 (1900 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
6.12	1859.999995	-0.0027	1899.999996	-0.0021
7.2	1860.000009	0.0048	1900.000004	0.0021
8.28	1859.999996	-0.0022	1899.999993	-0.0037

Note: The applicant defined the normal working voltage is from 6.12 to 8.28 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 18700 (1860 MHz)		CH 19100 (1900 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1860.000008	0.0043	1900.000004	0.0021
-20	1860.000003	0.0016	1900.000004	0.0021
-10	1859.999993	-0.0038	1899.999991	-0.0047
0	1860.000001	0.0005	1899.999997	-0.0016
10	1860.000004	0.0022	1899.999996	-0.0021
20	1860.000001	0.0005	1900.000005	0.0026
30	1859.999998	-0.0011	1900.000002	0.0011
40	1859.999992	-0.0043	1899.999997	-0.0016
50	1859.999997	-0.0016	1899.999992	-0.0042

7.8.2 LTE Band 5

LTE Band 5, Channel Bandwidth: 1.4 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 20407 (824.7 MHz)		CH 20643 (848.3 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
6.12	824.699999	-0.0012	848.299995	-0.0059
7.2	824.699992	-0.0097	848.299996	-0.0047
8.28	824.699997	-0.0036	848.299999	-0.0012

Note: The applicant defined the normal working voltage is from 6.12 to 8.28 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 20407 (824.7 MHz)		CH 20643 (848.3 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	824.700009	0.0109	848.300005	0.0059
-20	824.699993	-0.0085	848.299991	-0.0106
-10	824.700006	0.0073	848.300008	0.0094
0	824.699995	-0.0061	848.299993	-0.0083
10	824.700008	0.0097	848.300003	0.0035
20	824.699998	-0.0024	848.299999	-0.0012
30	824.699997	-0.0036	848.300002	0.0024
40	824.700007	0.0085	848.300003	0.0035
50	824.700006	0.0073	848.300001	0.0118

LTE Band 5, Channel Bandwidth: 3 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 20415 (825.5 MHz)		CH 20635 (847.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
6.12	825.500009	0.0109	847.500009	0.0106
7.2	825.499999	-0.0012	847.500002	0.0024
8.28	825.500002	0.0024	847.500003	0.0035

Note: The applicant defined the normal working voltage is from 6.12 to 8.28 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 20415 (825.5 MHz)		CH 20635 (847.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	825.500002	0.0024	847.500005	0.0059
-20	825.500001	0.0012	847.499996	-0.0047
-10	825.499991	-0.0109	847.499993	-0.0083
0	825.500003	0.0036	847.500004	0.0047
10	825.500004	0.0048	847.500004	0.0047
20	825.500006	0.0073	847.500001	0.0012
30	825.500003	0.0036	847.500005	0.0059
40	825.500008	0.0097	847.500008	0.0094
50	825.500002	0.0024	847.500005	0.0059

LTE Band 5, Channel Bandwidth: 5 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 20425 (826.5 MHz)		CH 20625 (846.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
6.12	826.499997	-0.0036	846.500001	0.0012
7.2	826.499997	-0.0036	846.500004	0.0047
8.28	826.499993	-0.0085	846.499992	-0.0095

Note: The applicant defined the normal working voltage is from 6.12 to 8.28 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 20425 (826.5 MHz)		CH 20625 (846.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	826.499993	-0.0085	846.499991	-0.0106
-20	826.499997	-0.0036	846.499995	-0.0059
-10	826.500005	0.006	846.500001	0.0012
0	826.499997	-0.0036	846.499997	-0.0035
10	826.499998	-0.0024	846.499999	-0.0012
20	826.500009	0.0109	846.500009	0.0106
30	826.499998	-0.0024	846.499999	-0.0012
40	826.499991	-0.0109	846.499993	-0.0083
50	826.499995	-0.006	846.499995	-0.0059

LTE Band 5, Channel Bandwidth: 10 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 20450 (829 MHz)		CH 20600 (844 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
6.12	828.999993	-0.0084	843.999991	-0.0107
7.2	829.000003	0.0036	844.000006	0.0071
8.28	829.000002	0.0024	843.999999	-0.0012

Note: The applicant defined the normal working voltage is from 6.12 to 8.28 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 20450 (829 MHz)		CH 20600 (844 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	828.999993	-0.0084	843.999991	-0.0107
-20	829.000009	0.0109	844.000009	0.0107
-10	829.000003	0.0036	844.000001	0.0012
0	829.000005	0.006	844.000005	0.0059
10	829.000006	0.0072	844.000001	0.0118
20	829.000008	0.0097	844.000001	0.0118
30	828.999995	-0.006	843.999998	-0.0024
40	828.999998	-0.0024	843.999994	-0.0071
50	829.000001	0.0121	844.000006	0.0071

7.8.3 LTE Band 13

LTE Band 13, Channel Bandwidth: 5 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 23205 (779.5 MHz)		CH 23255 (784.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
6.12	779.50001	0.0128	784.500005	0.0064
7.2	779.500009	0.0115	784.500006	0.0076
8.28	779.499998	-0.0026	784.500002	0.0025

Note: The applicant defined the normal working voltage is from 6.12 to 8.28 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 23205 (779.5 MHz)		CH 23255 (784.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	779.499998	-0.0026	784.499999	-0.0013
-20	779.500008	0.0103	784.500008	0.0102
-10	779.500007	0.009	784.500005	0.0064
0	779.499998	-0.0026	784.500002	0.0025
10	779.500004	0.0051	784.500005	0.0064
20	779.500001	0.0013	784.500004	0.0051
30	779.500006	0.0077	784.500003	0.0038
40	779.500003	0.0038	784.499999	-0.0013
50	779.499995	-0.0064	784.499992	-0.0102

LTE Band 13, Channel Bandwidth: 10 MHz

Frequency Stability Versus Voltage		
Voltage (Vdc)	CH 23230 (782 MHz)	
	Frequency (MHz)	Frequency Error (ppm)
6.12	781.999998	-0.0026
7.2	781.999999	-0.0013
8.28	782.000005	0.0064

Note: The applicant defined the normal working voltage is from 6.12 to 8.28 Vdc.

Frequency Stability Versus Temperature		
Temperature (°C)	CH 23230 (782 MHz)	
	Frequency (MHz)	Frequency Error (ppm)
-30	781.999993	-0.009
-20	781.999994	-0.0077
-10	781.999997	-0.0038
0	782.000001	0.0013
10	781.999999	-0.0013
20	781.999991	-0.0115
30	781.999997	-0.0038
40	782.000004	0.0051
50	781.999992	-0.0102

7.8.4 LTE Band 66

LTE Band 66, Channel Bandwidth: 1.4 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 131979 (1710.7 MHz)		CH 132665 (1779.3 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
6.12	1710.699994	-0.0035	1779.29999	-0.0056
7.2	1710.700007	0.0041	1779.300007	0.0039
8.28	1710.700003	0.0018	1779.300005	0.0028

Note: The applicant defined the normal working voltage is from 6.12 to 8.28 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 131979 (1710.7 MHz)		CH 132665 (1779.3 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1710.700003	0.0018	1779.300005	0.0028
-20	1710.699999	-0.0006	1779.299997	-0.0017
-10	1710.699999	-0.0006	1779.299994	-0.0034
0	1710.699996	-0.0023	1779.299994	-0.0034
10	1710.700001	0.0006	1779.300002	0.0011
20	1710.700004	0.0023	1779.300004	0.0022
30	1710.69999	-0.0058	1779.299992	-0.0045
40	1710.700007	0.0041	1779.300007	0.0039
50	1710.700001	0.0006	1779.300006	0.0034

LTE Band 66, Channel Bandwidth: 3 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 131987 (1711.5 MHz)		CH 132657 (1778.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
6.12	1711.500001	0.0006	1778.500001	0.0006
7.2	1711.500007	0.0041	1778.500001	0.0056
8.28	1711.499994	-0.0035	1778.499994	-0.0034

Note: The applicant defined the normal working voltage is from 6.12 to 8.28 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 131987 (1711.5 MHz)		CH 132657 (1778.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1711.499994	-0.0035	1778.499998	-0.0011
-20	1711.499999	-0.0006	1778.500003	0.0017
-10	1711.500007	0.0041	1778.500006	0.0034
0	1711.499991	-0.0053	1778.499999	-0.0056
10	1711.499992	-0.0047	1778.499999	-0.0056
20	1711.499994	-0.0035	1778.499993	-0.0039
30	1711.499996	-0.0023	1778.499998	-0.0011
40	1711.500002	0.0012	1778.499997	-0.0017
50	1711.499999	-0.0006	1778.500003	0.0017

LTE Band 66, Channel Bandwidth: 5 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 131997 (1712.5 MHz)		CH 132647 (1777.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
6.12	1712.500005	0.0029	1777.500007	0.0039
7.2	1712.500008	0.0047	1777.500006	0.0034
8.28	1712.500001	0.0006	1777.500005	0.0028

Note: The applicant defined the normal working voltage is from 6.12 to 8.28 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 131997 (1712.5 MHz)		CH 132647 (1777.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1712.500004	0.0023	1777.500008	0.0045
-20	1712.499992	-0.0047	1777.499997	-0.0017
-10	1712.500001	0.0006	1777.500002	0.0011
0	1712.499994	-0.0035	1777.499995	-0.0028
10	1712.500004	0.0023	1777.500008	0.0045
20	1712.500003	0.0018	1777.500001	0.0006
30	1712.499999	-0.0006	1777.499998	-0.0011
40	1712.499998	-0.0012	1777.499998	-0.0011
50	1712.500009	0.0053	1777.500005	0.0028

LTE Band 66, Channel Bandwidth: 10 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 132022 (1715 MHz)		CH 132622 (1775 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
6.12	1714.999995	-0.0029	1774.999998	-0.0011
7.2	1714.999991	-0.0052	1774.999999	-0.0056
8.28	1714.999999	-0.0006	1774.999999	-0.0006

Note: The applicant defined the normal working voltage is from 6.12 to 8.28 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 132022 (1715 MHz)		CH 132622 (1775 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1714.999996	-0.0023	1774.999999	-0.0006
-20	1714.999992	-0.0047	1774.999996	-0.0023
-10	1715.000003	0.0017	1774.999998	-0.0011
0	1714.999992	-0.0047	1774.999992	-0.0045
10	1714.999999	-0.0058	1774.999994	-0.0034
20	1714.999996	-0.0023	1775.000001	0.0006
30	1714.999995	-0.0029	1774.999997	-0.0017
40	1715.000005	0.0029	1775.000003	0.0017
50	1714.999998	-0.0012	1775.000002	0.0011

LTE Band 66, Channel Bandwidth: 15 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 132047 (1717.5 MHz)		CH 132597 (1772.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
6.12	1717.499994	-0.0035	1772.499995	-0.0028
7.2	1717.499994	-0.0035	1772.499995	-0.0028
8.28	1717.50001	0.0058	1772.50001	0.0056

Note: The applicant defined the normal working voltage is from 6.12 to 8.28 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 132047 (1717.5 MHz)		CH 132597 (1772.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1717.50001	0.0058	1772.500007	0.0039
-20	1717.499992	-0.0047	1772.499991	-0.0051
-10	1717.499992	-0.0047	1772.499993	-0.0039
0	1717.499995	-0.0029	1772.499994	-0.0034
10	1717.500001	0.0006	1772.500001	0.0006
20	1717.500004	0.0023	1772.499999	-0.0006
30	1717.499996	-0.0023	1772.499996	-0.0023
40	1717.500003	0.0017	1772.500002	0.0011
50	1717.499992	-0.0047	1772.499996	-0.0023

LTE Band 66, Channel Bandwidth: 20 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 132072 (1720 MHz)		CH 132572 (1770 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
6.12	1720.000002	0.0012	1769.999999	-0.0006
7.2	1719.999997	-0.0017	1769.999999	-0.0006
8.28	1720.000008	0.0047	1770.000001	0.0056

Note: The applicant defined the normal working voltage is from 6.12 to 8.28 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 132072 (1720 MHz)		CH 132572 (1770 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1719.999996	-0.0023	1769.999993	-0.004
-20	1719.999994	-0.0035	1769.999991	-0.0051
-10	1719.999996	-0.0023	1770.000001	0.0006
0	1719.999992	-0.0047	1769.999999	-0.0056
10	1720.000002	0.0012	1769.999998	-0.0011
20	1719.999992	-0.0047	1769.999991	-0.0051
30	1719.999994	-0.0035	1769.999991	-0.0051
40	1720.000006	0.0035	1770.000004	0.0023
50	1720.000007	0.0041	1770.000007	0.004

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Lin Kou EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@bureauveritas.com

Web Site: <http://ee.bureauveritas.com.tw>

The address and road map of all our labs can be found in our web site also.

--- END ---